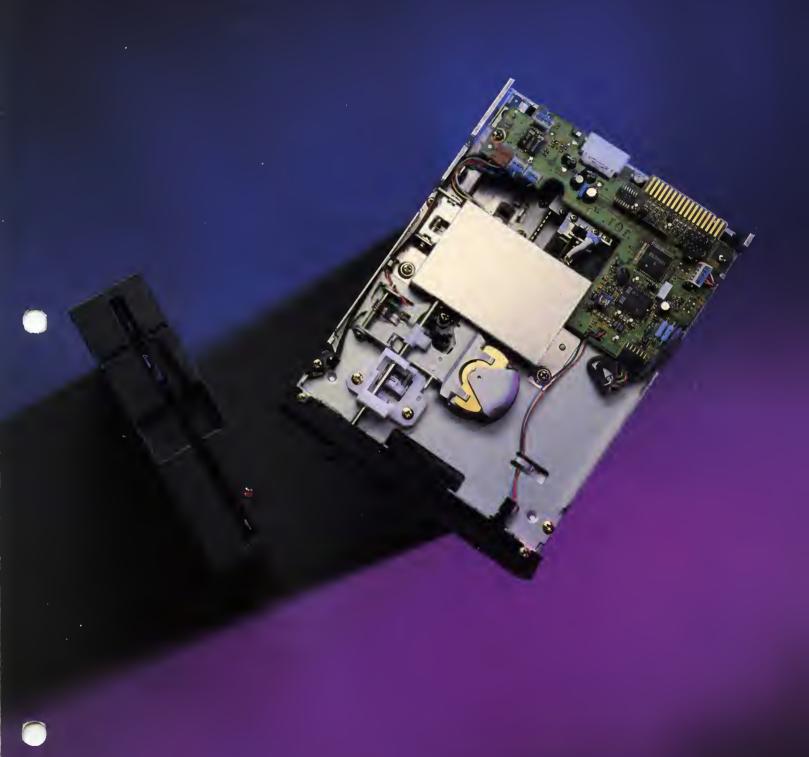
# Panasonic. 5.25" Flexible Disk Drives



Panasonic Industrial Co. **Memory Systems Division** 

# **Key Features JU-455**

- Compact size half-height
- 48 tracks-per inch
- Brushless direct drive DC motor
- Minifloppy interface and media compatibility
- Low power consumption
- 10,000 hours MTBF
- Reliable LSI electronics
- Dynamic vertical clamping
- UL/CSA approved

# **Key Features JU-475**

- Compact size half-height
- 1.6 Mbytes capacity
- Variable compatibility reads 96 or 48 TPI
- 3 msec track-to-track access time
- Brushless direct drive DC motor
- Low power consumption
- 10,000 hours MTBF
- Reliable LSI electronics
- Dynamic vertical clamping
- UL/CSA approved

# **Specifications**

Performance
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		JU-455 JU-475	
ТҮРЕ		Single/Double Density	
CAPACITY	Per Disk	250/500 Kbytes	0.8/1.6 Mbytes
	Per Surface	125/250 Kbytes	400/800 Kbytes
	Per Track	3.1/6.2 Kbytes	5.2/10.4 Kbytes
TRANSFER RATE		125/250 Kbits/sec	200/500 Kbits/sec
LATENCY (avg)		100 msec	83 msec
ACCESS	Track to Track	4 msec	3 msec
	Settling Time	15 msec	
	Motor Start Time	500 msec max.	

## **Physical**

	JU-455/475		
	Ambient Temperature (operating)		50°F to 115°F (10°C to 46.1°C)
ENVIRONMENTAL LIMITS	Relative Humidity (non-condensing)		20% to 80%
	Maximum Wet Bulb		85°F (29.4°C)
	+12V DC ±10% Ripple 100 mVp-p (max)		0.19A typical, 0.55A max. (JU-455)
DC VOLTAGE			0.26A typical, 0.8A max. (JU-475)
REQUIREMENTS	+5V DC :		0.37A typical, 0.4A max. (JU-455)
	Ripple 50 mVp-p (max)		0.44A typical, 0.5A max. (JU-475)
MECHANICAL	Height		1.63 in. (41.5 mm)
MECHANICAL DIMENSIONS	Width		5.75 in. (146.0 mm)
(Exclusive of	Depth		7.74 in. (196.5 mm)
Faceplate)	Weight	2.8	87 lbs (1.3 kg) nominal
	JU-455	4.13 wa	tts operating (typical)
POWER		1.47 watts standby (typical)	
DISSIPATION	JU-475	5.4 watts operating (typical)	
		1.8 wat	ts standby (typical)

### **Functional**

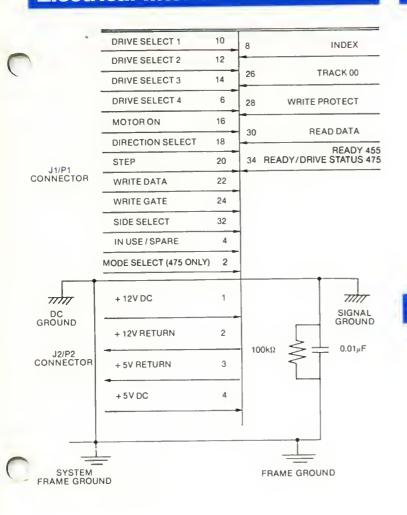
300 RPM	360/300 RPM
2938/5876 BPI	4935/9870 BPI
5876 FCI	9870 FCI
48 TPI	96 TPI
40	80
1	11
2	2
FM/MFM	
	2938/5876 BPI 5876 FCI 48 TPI 40 1 2

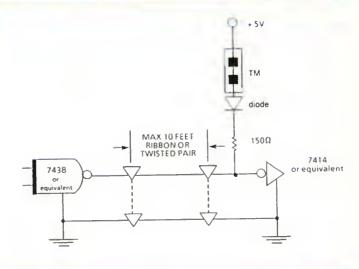
### Reliability

neliability			
MTBF	10,000 POH under typical usage		
PM	Not required		
MTTR	30 minutes		
COMPONENT LIFE	15,000 POH or 5 years		
	Soft Read Errors	1 per 109 bits read	
ERROR RATES	Hard Read Errors	1 per 1012 bits read	
	Seek Errors	1 per 10 <sup>6</sup> seeks	

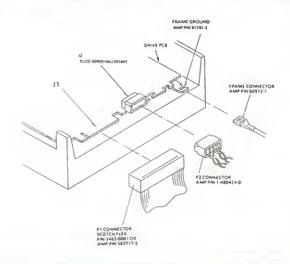
# **Electrical Interface**

# Interface Signal Driver/Receiver

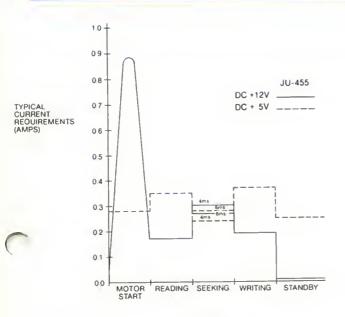


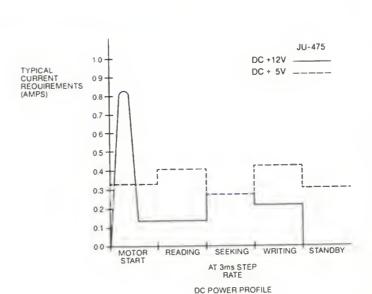


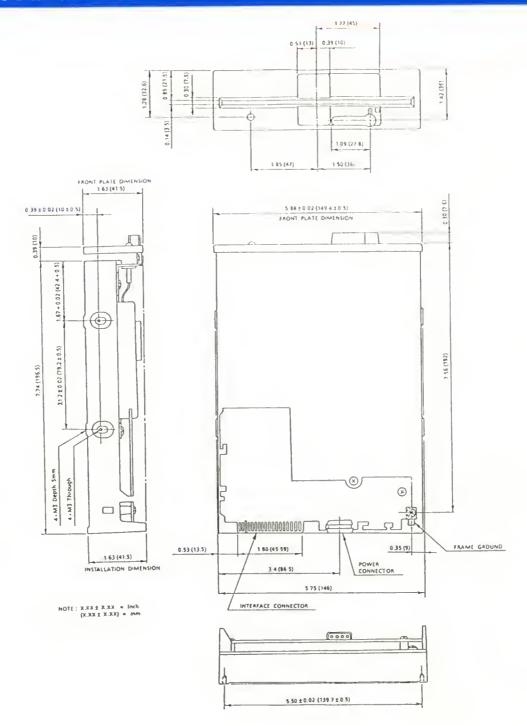
# **Physical Interface**



# **Power Consumption**







# Panasonic Industrial Co. Memory Systems Division

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